Amendments to the Claims:

1-17 (cancelled)

18. (original) A data communications adapter apparatus for coupling a

host computer to a computer network employing communications media, the

data comprising:

ethernet control circuitry;

a host interface configured to exchange data with said host computer;

a transceiver coupled to receive and transmit data over the media;

data transmit control circuitry responsive to said ethernet control circuitry

and coupled to said transceiver, to said transmit data buffer, and to said host

interface, for generating a packet transmit signal causing said transceiver to

begin transmitting data from said transmit data buffer over said

communications media;

a receive data buffer coupled to said host interface; and

data receive control circuitry responsive to said ethernet control circuitry

and coupled to said transceiver, to said receive data buffer, and to said host

interface, for storing data received by said transceiver in said receive data

buffer, and for generating a receive interrupt signaling to said host computer

that data has been received by said transceiver, wherein said data receive

control circuitry is operative to generate a receive interrupt once said transceiver

has received over said communications media a predetermined number of

bytes of a data packet less than all of said data packet.

19. (original) The adapter of Claim 18, wherein

said ethernet control circuitry, said host interface circuitry, and said data receive control circuitry, said data transmit control circuitry, said receive data buffer and said transmit data buffer are all contained in a single Application Specific Integrated Circuit (ASCI).

- 20. (original) The adapter of Claim 18, wherein said data receive control circuitry is programmable.
- 21. (original) The adapter of Claim 18, wherein said data transmit control circuitry is programmable to generate said packet transmit signal when said transmit data buffer contains a predetermined number of bytes of a data packet less than all of said data packet.
- 22. (currently amended) A method of transferring a packet of data from a computer network communications media through an adapter to a host computer, said method comprising the steps of:
- a) receiving from said communications media through a transceiver and storing in an adapter receive buffer a predetermined first receive threshold number of bytes of said packet;
- b) thereupon generating a first early receive interrupt from said adapter to said host computer;

adjusting said receive threshold according to said length of said packet;

continuing to receive from said communications media through said

transceiver and store in an adapter receive buffer bytes of said packet;

thereafter generating a second early receive interrupt from said adapter

to said host computer, prior to complete reception of said data packet; and

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c) thereafter storing from said communications media through said transceiver and storing in said adapter receive buffer a remainder of said

packet;

wherein said host computer employs a driver allowing for early

indications and having an early lookahead size, and wherein said step of

receiving a predetermined first receive threshold number of bytes comprising

receiving a number of bytes substantially equal to said early lookahead size.

23. (original) The method of Claim 22, wherein said adapter and said

host computer together have an interrupt latency time, said method further

comprising after said step of receiving a predetermined first receive threshold

number of bytes, the step of continuing to receive from said communications

media through said transceiver and store in an adapter receive buffer bytes of

said packet, wherein said step of receiving a predetermined first receive

threshold number of bytes further comprises receiving a predetermined first

receive threshold number of bytes substantially equal to said early lookahesad

size less a predetermined data receive rate times said interrupt latency time.

24. (original) The method of Claim 23, further comprising, after the step

of generating said first interrupt, the steps of

a) evaluating the number of bytes stored in said adapter receive buffer

against said early lookahead size; and

b) adjusting said receive threshold if said evaluating step does not

indicate substantial equality.

25-28 (cancelled)

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